

Technical Bulletin

MAZCLEAN™ EP PROPRIETARY EMULSIFIER

MAZCLEAN EP is a formulated emulsifier designed to produce clear microemulsions of d-limonene and water containing up to 30% d-limonene by weight. D-limonene is a citrus by-product and the major component of orange oil. It is a monocyclic terpene hydrocarbon possessing excellent solvency and fragrance properties. Microemulsions of MAZCLEAN EP, d-limonene, and water can be used as water-based degreasers, all-purpose cleaners with a natural lemon fragrance, lotion-type waterless hand cleaners, and in other formulations where biodegradability, grease removal, low skin irritation, and pleasant fragrance are needed. Because the microemulsion is a clear product, it can be easily blended with other detergent ingredients and colored to produce attractive consumer cleaning products that are safe and effective to use.

Use Instructions:

When making microemulsions, the order of addition of each component is important. MAZCLEAN EP should always be added to the d-limonene and thoroughly mixed before introducing any water to the system. MAZCLEAN EP should be added at a ratio of 2 parts for every 3 parts d-limonene. After these products are blended, water may be added to produce the desired final microemulsion strength. If water is introduced to the d-limonene prior to adding emulsifier, then the resulting mixture will either be hazy or will form a stable emulsion.

Dilution of a concentrated microemulsion is accomplished by adding water to the concentrate. This will insure that the diluted solution remains clear. If the concentrate is added to water, it will form a stable emulsion, although degreasing detergency, and fragrance properties are unchanged.

MAZCLEAN is a trademark of BASF Corporation

For More Information

Order Placement

To place orders for delivery in the United States please call our toll free number (800) 443-6460. To place orders for delivery in Canada please call BASF Canada at (800) 267-2955.

For Other Information

Including product literature and Material Safety Data Sheets please call (847) 249-6750.

Or Visit Our Website At:

www.performance.basf-corp.com

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Specifications

Free Amine (MW 105), %.....	0.0 – 2.8
Appearance @ 25 °C.....	Clear To Slightly Hazy Liquid
Color, Gardner.....	5.0 Max.

Typical physical properties

Purity.....	100% organic content
pH (1% Solution).....	9.7
Specific Gravity @ 25 °C.....	1.01
Flash Point, PMCC, °F.....	>200

Microemulsions of d-limonene and water are safe and versatile ingredients for many cleaning and degreasing compounds to replace less desirable solvent systems. MAZCLEAN EP enables the formulator to prepare microemulsions with ease and opens the door to new possibilities for biodegradable systems.

Shelf Life:

BASF will endorse the results on the certificate of analysis for a period of up to one year from the date of manufacture for material in original, unopened, properly stored containers. Beyond one year, we recommend the quality of the material be confirmed prior to use, by retesting the certificate of analysis parameters.

Please refer to the Material Safety Data Sheet (MSDS) for this product for instructions on safe and proper handling and disposal.

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